

Introduction to the Aircraft Evaluation Group

AEG

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Federal Aviation
Administration



INTRODUCTION TO AEG

INTRODUCTION TO AIRCRAFT EVALUATION GROUP

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FORT WORTH AEG**



INTRODUCTION TO AEG

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INTRODUCTION TO AEG

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INTRODUCTION TO AEG

GOAL

(PROVIDE INFORMATION ABOUT)

- AEG ORGANIZATION
- AEG OFFICE AND RESPONSIBILITIES
- ORDERS RELATING TO AEG
- AEG FUNCTIONS and PROCESSES
- INSTRUCTIONS FOR CONTINUED AIRWORTHINESS PROCESS

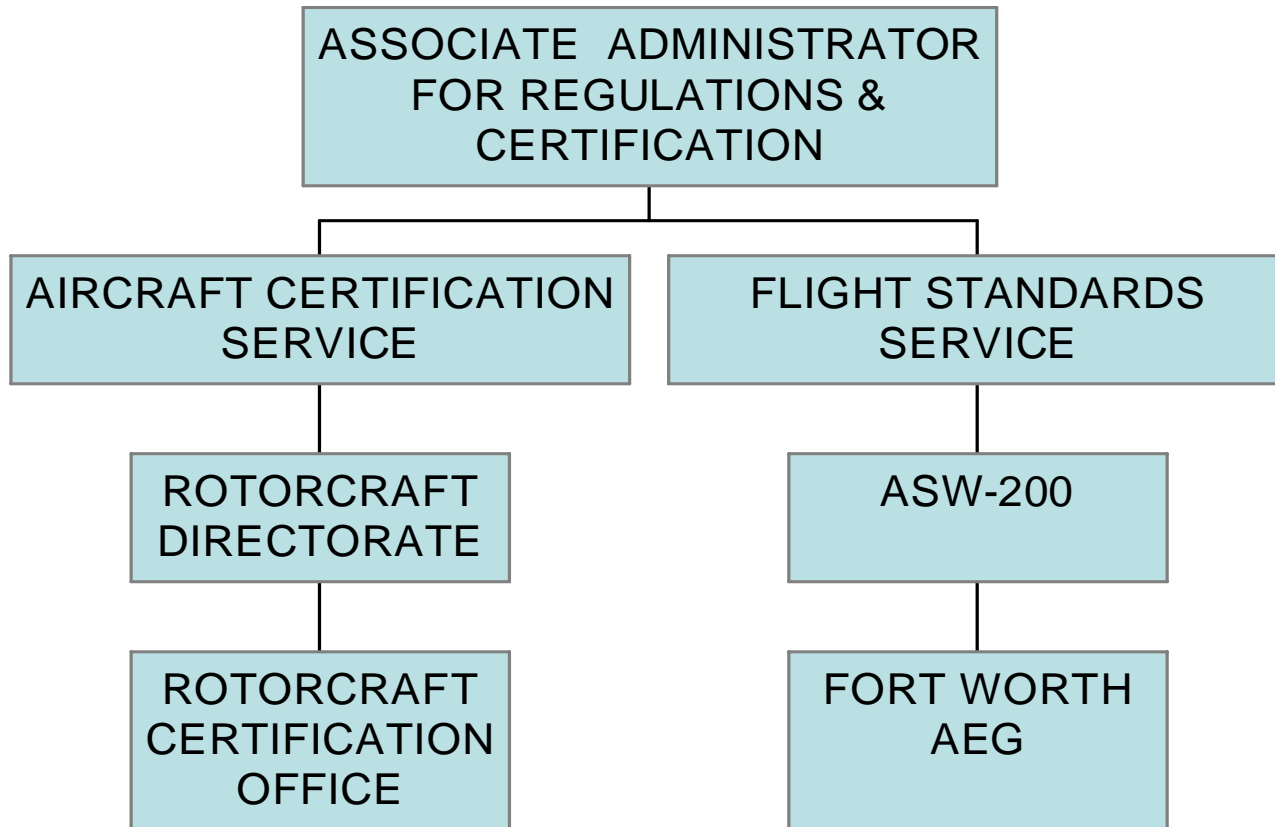
INTRODUCTION TO AEG

- **FORT WORTH AIRCRAFT EVALUATION GROUP IS A FLIGHT STANDARDS DISTRICT OFFICE (FSDO)**

----- AND -----

- **THE LIAISON BETWEEN FLIGHT STANDARDS OFFICES AND AIRCRAFT CERTIFICATION OFFICES (ACO)**

INTRODUCTION TO AEG



INTRODUCTION TO AEG

- **AIRCRAFT EVALUATION GROUP *OFFICES***
 - **SEATTLE AEG - *RENTON, WA* - TRANSPORT AIRPLANES**
 - **LONG BEACH AEG - *LAKEWOOD, CA* - TRANSPORT AIRPLANES**
 - **BOSTON AEG - *BURLINGTON, MA* - ENGINES & PROPELLERS**
 - **KANSAS CITY AEG - *KANSAS CITY MO* - SMALL AIRPLANES, AIR SHIPS, GLIDERS**
 - **FORT WORTH AEG - *FORT WORTH TX* - ROTORCRAFT & POWERED LIFT AIRCRAFT**

INTRODUCTION TO AEG

- **LEAD AEG OFFICES ARE CO-LOCATED WITH THE APPROPRIATE DIRECTORATES**
 - *SEATTLE AEG - TRANSPORT*
 - *BOSTON AEG - ENGINE & PROPELLER*
 - *KANSAS CITY AEG - SMALL AIRPLANE*
 - *FORT WORTH AEG - ROTORCRAFT*

ORDERS RELATING TO AEG

- **1100.5C** *AIRCRAFT CERTIFICATION (AC) DIVISION*
- **8000.51** *AC DIRECTORATES*
- **8100.5** *AC DIRECTORATES PROCEDURES*
- **8110.4A** *TYPE CERTIFICATION PROCESS*
- **8110.54** *Guidance for ICA process (NEW) ****
- **8300.10** *AIRWORTHINESS INSPECTOR HANDBOOK*
- **8400.10** *OPERATIONS INSPECTOR HANDBOOK*

ORDERS RELATING TO AEG

- **8430.21A** *FLT STANDARDS / AIRCRAFT CERT DIVISION & AIRCRAFT EVALUATION GROUP RESPONSIBILITIES*
- **8430.22** *FLIGHT OPERATIONS POLICY STANDARDIZATION PROGRAM*
- **8700.1** *GENERAL AVIATION OPERATIONS INSPECTOR'S HANDBOOK*
- **8110.50** *SUBMITTED ICA FOR TC, ATC and STC - Replaced by 8110.54*

OTHER DOCUMENTS RELATING TO AEG

- **N8110.74** STANDARDIZED CERTIFICATION PROJECT NOTIFICATION AND ELECTRONIC DISTRIBUTION.
- **M8040.1** AIRWORTHINESS DIRECTIVE MANUAL.
- **ICA SAMPLE** ON THE WEB. ***

FTW-AEG FUNCTIONS

FTW-AEG FUNCTIONS ARE IN *THREE* GENERAL AREAS:

- *CONTINUED OPERATIONAL SAFETY*
- *CERTIFICATION*
- *POST CERTIFICATION*
 - *MAINTENANCE FUNCTIONS (M)*
 - *OPERATIONS FUNCTIONS (O)*
 - (M&O) BOTH FUNCTIONS*

CONTINUED OPERATIONAL SAFETY

- ***AIRWORTHINESS DIRECTIVE (AD) REVIEW - (M)***
- ***PARTICIPATE IN AD BOARD - (M)***
- ***SERVICE DIFFICULTY REPORT REVIEW - (M)***
- ***MALFUNCTION DEFECT REPORT REVIEW - (M)***
- ***PROVIDE TECHNICAL ASSISTANCE TO:
NTSB, ACO, AND FSDO – REGARDING
ACCIDENTS, INCIDENTS, MALFUNCTIONS OR DEFECTS - (M&O).***

CONTINUED OPERATIONAL SAFETY

- *RECOMMEND CHANGES TO INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA) AS RESULT OF AN ACCIDENT, INCIDENT, MALFUNCTION OR DEFECT - (M).*
- *RECOMMEND CHANGES TO ROTORCRAFT FLIGHT MANUALS AS RESULT OF AN ACCIDENT, INCIDENT, MALFUNCTION OR DEFECT - (O).*
- *PARTICIPATE IN CERTIFICATION REVIEW - (M&O).*

CONTINUED OPERATIONAL SAFETY

- ***PARTICIPATE IN SPECIAL INSPECTIONS - (M&O).***
- ***PARTICIPATE IN AUDITS/ACESP (AS REQUESTED) - (M).***
- ***PARTICIPATE IN DEVELOPMENT OF:***
 - DIRECTIVES - (M&O).
 - POLICY - (M&O).
 - GUIDANCE MATERIAL - (M&O).

CONTINUED OPERATIONAL SAFETY

- *PARTICIPATE IN EARLY NOTIFICATION MEETINGS - (M&O).*
- *PARTICIPATE IN PRELIMINARY TYPE CERTIFICATION BOARD MEETINGS - (M&O).*
- *CONDUCT MAINTENANCE MEETING WITH APPLICANTS - (M).*
- *CONDUCT OPERATIONS MEETING WITH APPLICANTS - (O)*
- *DEVELOP AEG MAINTENANCE ISSUE PAPERS - (M).*
- *DEVELOP AEG OPERATIONS ISSUE PAPERS - (O).*

CONTINUED OPERATIONAL SAFETY

- ***PARTICIPATE IN INTERIM TYPE CERTIFICATE BOARD MEETING - (M&O).***
- ***PROVIDE GUIDANCE MATERIAL - (M&O).***
 - *INSTRUCTIONS FOR CONTINUED AIRWORTHINESS SAMPLE MANUAL.*
 - *SAMPLE MASTER MINIMUM EQUIPMENT LIST.*
- ***REVIEW ROTORCRAFT FLIGHT MANUALS AND FLIGHT MANUAL SUPPLEMENTS - (O).***
- ***CONDUCT FLIGHT COMPARTMENT EVALUATION - (O).***
- ***CHAIRPERSON MAINTENANCE REVIEW BOARD - (M).***

CONTINUED OPERATIONAL SAFETY

- ***PARTICIPATE IN MAINTENANCE REVIEW BOARD - (M).***
- ***REVIEW AND EVALUATE INSTRUCTIONS FOR CONTINUED AIRWORTHINESS - (M).***
- ***REVIEW THE AIRCRAFT'S LIST OF REQUIRED EQUIPMENT - (M&O).***
- ***RECEIVE TRAINING ON AIRCRAFT AND AIRCRAFT SYSTEMS - (M&O).***
- ***EVALUATE MAINTENANCE TRAINING PROGRAM - (M).***
- ***EVALUATE PILOT TRAINING PROGRAM - (O).***

CERTIFICATION

- ***CONDUCT AN AIRCRAFT MAINTAINABILITY EVALUATION - (M).***
- ***EVALUATE SPECIAL INSTALLATIONS - (M).***
- ***FUNCTION & RELIABILITY FLYING - (O).***
- ***REVIEW PROPOSED MASTER MINIMUM EQUIPMENT LIST - (M&O).***
- ***EVALUATE PROPOSED MAINTENANCE “(M)” SYMBOLS IN MASTER MINIMUM EQUIPMENT LIST - (M).***

CERTIFICATION

- *EVALUATE PROPOSED OPERATIONS “(O)” SYMBOLS IN MASTER MINIMUM EQUIPMENT LIST - (O).*
- *EVALUATE EMERGENCY EVALUATION DEMONSTRATION - (M&O).*
- *DEVELOP MAINTENANCE PROCEDURE GUIDANCE FOR “(M)” SYMBOLS - (M).*
- *DEVELOP OPERATIONS PROCEDURES GUIDANCE FOR “(O)” SYMBOLS - (O).*

CERTIFICATION

- *FLIGHT OPERATIONS EVALUATION BOARD CHAIRPERSON - (O).*
- *PARTICIPATE IN FLIGHT OPERATIONS EVALUATION BOARD - (M&O).*
- *PARTICIPATE IN FINAL TYPE CERTIFICATION BOARD MEETINGS - (M&O).*
- *REVIEW TYPE CERTIFICATE DATA SHEETS FOR MAINTENANCE AND OPERATIONS ISSUES - (M&O).*

POST CERTIFICATION

- *REVIEW ALTERNATE MEANS OF COMPLIANCE FOR AIRWORTHINESS DIRECTIVES - (M).*
- *RESPOND TO NTSB RECOMMENDATIONS - (M&O).*
- *RESPOND TO FAA SAFETY RECOMMENDATIONS - (M&O).*
- *PROVIDE LIAISON BETWEEN FLIGHT STANDARDS OFFICES AND AIRCRAFT CERTIFICATION OFFICES REGARDING CONTINUED OPERATIONAL SAFETY AND CERTIFICATION ISSUES - (M&O).*

POST CERTIFICATION

- *PROVIDE TECHNICAL ASSISTANCE TO FSDO AND ACO REGARDING MAINTENANCE AND OPERATIONAL ISSUES RELATING TO CERTIFICATION - (M&O).*
- *PARTICIPATE IN MAINTENANCE REVIEW BOARD POLICY BOARD - (M).*
- *PARTICIPATE IN FLIGHT OPERATIONS EVALUATION POLICY BOARD - (O).*
- *CHAIRPERSON FLIGHT STANDARDIZATION BOARD - (O).*
- *PARTICIPATE IN FLIGHT STANDARDIZATION BOARD - (O).*



POST CERTIFICATION

- ***COORDINATE WITH NATIONAL SIMULATOR EVALUATION TEAM ON SIMULATOR & TRAINING DEVICES - (O).***
- ***PARTICIPATE IN SPECIAL PROJECT - (M&O).***
- ***REVIEW REVISION TO FAA ACCEPTED INSTRUCTION FOR CONTINUED AIRWORTHINESS - (M).***
- ***REVIEW AND EVALUATE MANUFACTURER'S SERVICE BULLETIN - (M).***
- ***REVIEW REVISIONS TO FLIGHT MANUALS AND FLIGHT MANUAL SUPPLEMENTS - (O).***

POST CERTIFICATION

- ***REVIEW REVISION TO MASTER MINIMUM EQUIPMENT LIST - (M&O).***
- ***REVIEW AND COMMENT ON PROPOSED REGULATIONS, ORDERS, POLICY, ADVISORY CIRCULAR, ETC.. - (M&O).***
- ***OTHER FUNCTIONS ASSIGNED - (M&O).***

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ICA PROCESS “APPLICATION PACKAGE”

- *Applicant should present an ICA that follows the **FORMAT** in Order 8110.54*
- *The ICA must contain a method of page control*
- *The Airworthiness Limitations Section is a separate part that is reviewed by the ACO and is approved*
- *The AEG accepts the ICA and if determined to be complex, the AEG may conduct a “Maintainability Evaluation” review*
- *Upon complete review, acceptance and approval the package will be returned to the applicant by the ACO*

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ICA - office process

- *Applicant submits project to local ACO*
- *Local ACO forwards to responsible AEG office*
- *AEG office reviews the ICA for acceptability*
- *AEG “works directly” with applicant during review*
- *AEG submits final accepted ICA to ACO*
- *ACO sends ICA to applicant after review of Airworthiness Limitations*

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ICA PROCESS

- *Most ICA's are associated with an STC or TC project.*
- “However”*
- *There are other certification processes that also require an ICA.*
 - *Examples:*
 - Military Restricted category rotorcraft.
 - Flight Standards Field Approval.
 - Modifications to an existing TC or STC with no prior ICA.
 - Any other certification deemed appropriate to the regulations

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QUESTION?

